```
    FILE 'HCAPLUS' ENTERED AT 14:46:41 ON 29 APR 2008
L1            1 S FRUCOOLIGOSACCHARIDE
L2        12100 S INULIN OR CHICORY
L3       143012 S DOG OR CAT OR (COMPANION ANIMAL) OR CANINE OR FELINE
L4            0 S L1 AND L2 AND L3
L5            0 S L4 AND (PY<2004 OR AY<2004 OR PRY<2004)

     FILE 'STNGUIDE' ENTERED AT 14:46:50 ON 29 APR 2008

     FILE 'HCAPLUS' ENTERED AT 14:47:10 ON 29 APR 2008
L6         1003 S FRUCTOOLIGOSACCHARIDE
L7            4 S L6 AND L2 AND L3
L8            3 S L7 AND (PY<2004 OR AY<2004 OR PRY<2004)
```

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=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.42       0.42

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FILE COVERS 1907 - 29 Apr 2008  VOL 148 ISS 18
FILE LAST UPDATED: 28 Apr 2008  (20080428/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s frucooligosaccharide

L1           1 FRUCOOLIGOSACCHARIDE

=> s inulin or chicory

         10617 INULIN
          1883 CHICORY
L2       12100 INULIN OR CHICORY

=> s dog or cat or (companion animal) or canine or feline

         69695 DOG
         52190 CAT
         10788 COMPANION
       1453768 ANIMAL
           136 COMPANION ANIMAL
                 (COMPANION(W)ANIMAL)
         30204 CANINE
          6851 FELINE
L3      143012 DOG OR CAT OR (COMPANION ANIMAL) OR CANINE OR FELINE

=> s l1 and l2 and l3

L4           0 L1 AND L2 AND L3

=> s l4 and (PY<2004 or AY<2004 or PRY<2004)

      23980412 PY<2004
       4767633 AY<2004
       4246379 PRY<2004
L5           0 L4 AND (PY<2004 OR AY<2004 OR PRY<2004)
```

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=> file stnguide

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                             ENTRY    SESSION
FULL ESTIMATED COST                                           2.69       3.11

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=> file hcaplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                             ENTRY    SESSION
FULL ESTIMATED COST                                           0.06       3.17

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FILE COVERS 1907 - 29 Apr 2008  VOL 148 ISS 18
FILE LAST UPDATED: 28 Apr 2008  (20080428/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s fructooligosaccharide

L6        1003 FRUCTOOLIGOSACCHARIDE

=> s l6 and l2 and l3

L7           4 L6 AND L2 AND L3

=> s l7 and (PY<2004 or AY<2004 or PRY<2004)

      23980412 PY<2004
       4767633 AY<2004
       4246379 PRY<2004
L8           3 L7 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> file stnguide

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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                                                      ENTRY    SESSION
FULL ESTIMATED COST                                    2.69       5.86

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 25, 2008 (20080425/UP).

=> d l7 1-4 ti abs bib
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y



L7   ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2008 ACS on STN
TI   Methods and kits related to administration of a
     fructooligosaccharide
AB   A first embodiment disclosed herein is a method of enhancing total tract
     digestibility of one or more dietary components in a companion
     animal, the method comprising administering to the
     companion animal a companion animal
     composition comprising fructooligosaccharide.  Kits comprising the
     companion animal composition and information that use of the
     companion animal composition by a companion
     animal is useful for enhancing total tract digestibility of one or
     more dietary components in the companion animal, are
     also disclosed.  In a related, but sep., embodiment, a method selected
     from enhancing calcium absorption, improving bone health, improving
     strength, improving phys. activity performance, and combinations thereof,
     the method comprising administering to a companion
     animal a companion animal composition comprising
     fructooligosaccharide, is disclosed.  Kits comprising the
     companion animal composition and information that use of the
     companion animal composition by a companion
     animal is useful for a purpose selected from the group consisting
     of enhancing calcium absorption, improving bone health, improving
     strength, improving phys. activity performance, and combinations thereof,
     are also disclosed.
AN   2005:471837  HCAPLUS <<LOGINID::20080429>>
DN   143:13251
TI   Methods and kits related to administration of a
     fructooligosaccharide
IN   Sunvold, Gregory Dean; Boileau, Thomas William-Maxwell; Vickers, Robert
     Jason
PA   The Iams Company, USA
SO   U.S. Pat. Appl. Publ., 8 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     ---------------     ----   --------    --------------------   --------
PI   US 20050118234       A1    20050602    US 2003-724839         20031201
     AU 2004295005        A1    20050616    AU 2004-295005         20041201
     CA 2547059           A1    20050616    CA 2004-2547059        20041201
     WO 2005053426        A1    20050616    WO 2004-US40086        20041201
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

EP 1696734	A1	20060906	EP 2004-812573		20041201
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS					
BR 2004017187	A	20070306	BR 2004-17187		20041201
JP 2007512032	T	20070517	JP 2006-542682		20041201
PRAI US 2003-724839	A	20031201			
WO 2004-US40086	W	20041201			

L7 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Oxalate degradation by intestinal lactic acid bacteria in dogs and cats
AB This study evaluated the ability of the lactic acid bacteria (LAB) component of canine and feline feces to degrade oxalate in vitro. Oxalate degradation by individual canine-origin LAB was also evaluated. The effects of various prebiotics on in vitro oxalate degradation by selected oxalate-degrading canine LAB was also evaluated. Canine fecal samples reduced oxalate levels by 78% (range: 44-97%, median: 81%). Feline results were similar, with oxalate reduction of 69.7% (range: 40-96%, median: 73%). Thirty-seven lactic acid bacteria were isolated from canine fecal samples. Mean oxalate degradation was 17.7% (range: 0-65%, median: 13%). No oxalate degradation was detected for four (11%) isolates, and 10/37 (27%) degraded less than 10% of oxalate. The effects of lactitol, arabinogalactan, guar gum, gum Arabic, inulin, maltodextrin or a com. fructooligosaccharide (FOS) product on in vitro oxalate degradation by five canine LAB isolates were highly variable, even within the same bacterial species. Overall, in vitro degradation was significantly greater with guar gum compared to arabinogalactan, gum Arabic, and lactitol. This study suggests that manipulation of the LAB component of the canine and feline gastrointestinal microflora may decrease intestinal oxalate, and correspondingly intestinal oxalate absorption and renal excretion, thus potentially reducing oxalate urolithiasis.
AN 2004:521152 HCAPLUS <<LOGINID::20080429>>
DN 141:223304
TI Oxalate degradation by intestinal lactic acid bacteria in dogs and cats
AU Weese, J. S.; Weese, H. E.; Yuricek, L.; Rousseau, J.
CS Department of Clinical Studies, Ontario Veterinary College, University of Guelph, Guelph, ON, N1G 2W1, Can.
SO Veterinary Microbiology (2004), 101(3), 161-166
CODEN: VMICDQ; ISSN: 0378-1135
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Comparison of fermentation of selected fructooligosaccharides and other fiber substrates by canine colonic microflora
AB The objective was to compare fermentation characteristics of fructooligosaccharides (FOS) and other fiber substrates that are commonly found in canine diets. Fecal samples from 3 adult dogs were used. The ability of fiber substrates to be used in microbial fermentation

reactions was assessed by an in vitro fermentation system. Dogs were fed a com.
available food, and feces were collected for use as the microbial inoculum. Substrates used were beet pulp, cellulose, soy fiber, mannanoligosaccharides (MOS), FOS, and 4 inulin products (inulin 1, 2, 3, and 4). Each substrate was incubated anaerobically with fecal inoculum and growth media for 6, 12, and 24 h, and production of short-chain fatty acids (SCFA) was measured. Total production
of SCFA was higher for fermentation of the 4 inulin products and FOS, whereas fermentation of beet pulp, MOS, and soy fiber resulted in moderate concns. of SCFA. Fermentation of cellulose produced the lowest concns. of total
SCFA without detection of butyrate or lactate. Butyrate production was greatest for fermentation of the 4 inulin products and FOS. Total lactate production was greatest for FOS and inulin 4. As expected, production of SCFA increased for all substrates as fermentation time increased. Canine fecal microflora ferment FOS-containing substrates in a similar manner, with little fermentation of cellulose-based carbohydrates. Furthermore,
results of an in vitro fermentation system indicate that fiber type affects the metabolic activity of microorganisms, thus influencing the amount and nature of the end products of fermentation

AN 2001:301218 HCAPLUS <<LOGINID::20080429>>
DN 134:366148
TI Comparison of fermentation of selected fructooligosaccharides and other fiber substrates by canine colonic microflora
AU Vickers, Robert J.; Sunvold, Gregory D.; Kelley, Russell L.; Reinhart, Gregory A.
CS Division of Research and Development, The Iams Company, Lewisburg, OH, 45338, USA
SO American Journal of Veterinary Research (2001), 62(4), 609-615
CODEN: AJVRAH; ISSN: 0002-9645
PB American Veterinary Medical Association
DT Journal
LA English
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Improving condition of elderly pets with nutritional feed additives
AB A method is provided for improving the condition and/or increasing the longevity of elderly pets. The elderly pet is administered an effective amount of a nutritional composition which contains a calcium source and an antioxidant source, such as of vitamins or vitamin precursors which have antioxidant properties. Examples of such vitamins and precursors include β-carotene and vitamin E.

AN 2001:185509 HCAPLUS <<LOGINID::20080429>>
DN 134:192561
TI Improving condition of elderly pets with nutritional feed additives
IN Young, Linda A.; Czarnecki, Gail
PA Societe Des Produits Nestle S.A., Switz.
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001017366	A1	20010315	WO 2000-EP8870	20000908

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

CA	2383715	A1	20010315	CA 2000-2383715	20000908
CA	2383715	C	20071113		
BR	2000013879	A	20020507	BR 2000-13879	20000908
EP	1213971	A1	20020619	EP 2000-964160	20000908

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP	2003508070	T	20030304	JP 2001-521168	20000908
NZ	517333	A	20030926	NZ 2000-517333	20000908
IL	148142	A	20050619	IL 2000-148142	20000908
AU	782494	B2	20050804	AU 2000-75179	20000908
RU	2267277	C2	20060110	RU 2002-108889	20000908
MX	2002PA02195	A	20020918	MX 2002-PA2195	20020228
NO	2002001145	A	20020502	NO 2002-1145	20020307
ZA	2002002740	A	20030708	ZA 2002-2740	20020408
US	7211280	B1	20070501	US 2002-70777	20020722
US	20050123643	A1	20050609	US 2004-945768	20040921
PRAI US	1999-152984P	P	19990909		
WO	2000-EP8870	W	20000908		
US	2002-70777	A2	20020722		

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT